MTBF Estimation [AA050ME01]

The reliability test results are shown in below.

Condition (High temperature/ High humidity operation test)	50degree C/ 90%RH, 500hours
Acceleration factor (for 25degree C, 50%)	40
Basic failure rate (Reference : JIS Standard C5003)	2.3
Number of test samples	n=6
Result	GO (r=0)

We estimate the failure rate(λ) in 90% Confidence level.

λ = 2.3 / (40 x 500 x 6)

$\fallingdotseq$ 19 K FIT

MTBF=1/ λ

=1/(19 K x 10^{-9})

$\fallingdotseq$ 52000 hrs

Note:

*1: The MTBF doesn't include backlight.

*2: The MTBF is a calculated expectation time.

*3: The MTBF isn't assured time.

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